A 56-year-old man was referred for endoscopic treatment of benign postoperative stenosis of an esophagogastric anastomosis with a proximal fistula to the neck. He had previously undergone chemo- and radiotherapy for squamous cell carcinoma of the proximal esophagus. Because of recurrent malignancy, esophageal resection with tubular gastric reconstruction was performed. Postoperative dysphagia and cutaneous fistula to the neck occurred. Endoscopic examination revealed pinpoint stenosis at 2 cm distal to the upper esophageal sphincter with a fistula below the sphincter (Fig. 1).

Under fluoroscopic guidance, and with the patient under general anesthesia, balloon dilation of the stenosis up to 8 mm was performed and an 8-cm-long, fully covered self-expandable metal stent (SEMS) was placed, covering the fistula (Fig. 2). Barium swallow confirmed sealing of the fistula and good stent position and deployment (Fig. 3). The patient experienced no pain or dysphagia and was allowed to eat semifluids.

Four days later he was admitted to the emergency room because of hoarseness and severe stridor. Endoscopy showed bilateral vocal cord paralysis without edema or compression and a good stent position immediately below the upper esophageal sphincter (Fig. 4). After endotracheal intubation, the stent was removed by inversion, revealing a dilated stenosis (Fig. 5). After weaning 2 days later, the vocal cord paralysis gradually improved.
and spontaneous respiration without stridor was possible (Fig. 6).

This case illustrates the risk of SEMS placement in the proximal esophagus [1]. Progressive hoarseness and stridor occurred, but improved gradually after removal of the stent. This is in contrast to a previous report in which a tracheostomy was required because of permanent vocal cord paralysis [2]. Since no compression or edema occurred in our patient, it is hypothesized that the proximal flare of the stent compressed the recurrent laryngeal nerve, resulting in vocal cord paralysis [3]. Fortunately, the patient gradually recovered after the stent was removed. Transient vocal cord paralysis is considered a rare complication of SEMS placement in the proximal esophagus.

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Competing interests: None